

University of Bahrain
College of Information Technology
Department of Computer Science
Semester I 2009-2010 Mid Term Test
ITCS 351 (Multimedia and Hypermedia System)

Date: 15-11-2009

Time: 8:30-10:00

Student ID#	
Student Name	
Section#	

Question#	Marks		Comments
1	7		
2	20		
3	4		
4	4.5		
5	4.5		
Total	40		

NOTE:

THERE ARE SIX (6) PAGES IN THIS EXAM



www.uob-bh.com

Question One (7 Marks)**FILL IN THE BLANK WITH SUITABLE WORD(S)**

1. Using too many fonts on the same page is called _____.
2. The most appropriate title for the person whose job it is to devise the navigation pathways and content maps is the _____.
3. Translating or designing multimedia (or any computer-based material) into a language other than the one in which it was originally written is called _____.
4. A _____ file requires no cross-platform conversion.
5. The process of playing a sound file while part of the file is still downloading is called _____.
6. _____ tools are software tools designed to manage individual multimedia elements and provide user interaction.
7. A _____ multimedia project allows users to sit back and watch it just as they watch a movie or the television.
8. HTML and DHTML Web pages or sites are generally viewed using a _____.
9. In multimedia applications, sounds are either _____ sounds or ambient sounds.
10. _____ is a technique where each number in the digital audio file represents exactly one sample in the waveform.
11. Sound pressure levels (loudness or volume) are measured in _____.
12. The process of adjusting the level of a number of tracks to bring them all up to about the same level is called _____.
13. The job of a _____ is to create character, action, point of view, and interactivity, write proposals, script voice-overs and actors' narrations, and text screens.
14. The person responsible for the overall development and implementation of a project as well as for the day-to-day operations is the _____.

Question Two (20 Marks)**CIRCLE THE CORRECT ANSWER**

1. VR stands for:

A. Variable rate	B. Virtual response
C. Video raster	D. Virtual reality
	E. Valid registry
2. If a DHTML document includes a font face that is not installed on the user's computer, a browser will:

- A. Try to substitute the font with a similar font B. Crash
- C. Refuse to load the page D. Leave a blank space where that text is
- E. Automatically download the correct font
3. The reference from one document to another document, image, sound, or file on the Web is a(n):
- A. Sweetspot B. Node
- C. Anchor D. Tag E. Button
4. A family of graphic characters that usually includes many type sizes and styles is called a:
- A. Font B. Typeface
- C. Point D. Link E. Node
5. Which of the following is a term that applies to the spacing between character pairs?
- A. Kerning B. Points
- C. Tracking D. Leading E. Dithering
6. Which of the following provides a system for dynamically displaying a font?
- A. Serif B. CSS
- C. WYSIWYG D. PostScript E. HTTPD
7. Which of the following is NOT a stage of a multimedia project?
- A. Marketing B. Planning and costing
- C. Designing and production D. Testing E. Delivery
8. Which of the following is displayable on a Web page after the installation of a browser plug-in?
- A. Windows 98 B. Mozilla
- C. Netscape Navigator D. Internet Explorer E. Macromedia Flash
9. Which of the following is a character encoding system?
- A. Unicode B. WYSIWYG
- C. CSS D. HTML E. FontTab
10. The file size of a 5-second recording sampled at 22 kHz, 16-bit stereo (two tracks) would be about:

- A. 110,000 bytes B. 220,000 bytes
C. 440,000 bytes D. 550,000 bytes E. 880,000 bytes
11. In the URL `http://www.timestream.com/info/people/biotay/biotay1.html`, which part is case sensitive?
- A. The record type: "`http://`" B. The sub domain "`www`"
C. The domain name: "`timestream.com`"
D. The document path: "`info/people/biotay/biotay1.html`"
E. All are case sensitive
12. What is a general measurement applied to individual characters called?
- A. Character mapping B. Dots per inch
C. Type faces D. Character metrics E. Rasterizing
13. Producing multimedia for the Web is different from producing for CD-ROM because:
- A. A Web site is never finished, but is always available for changes
B. Web development is much better adapted to larger, longer media
C. Web design is much closer to print design; multimedia is more like film
D. Web interface design is much more complex than CD-ROM interface design
E. The Web development industry is much more focused on sales and marketing
14. Each individual measurement of a sound that is stored as digital information is called a
- A. Byte B. Sample
C. Capture D. Stream E. Buffer
15. The file format that uses a shorthand representation of musical notes and durations stored in numeric form is:
- A. QuickTime B. CD-ROM/XA
C. MIDI D. DSP E. AIFF
16. What happens when an audio signal exceeds the recording device's maximum recording level?
- A. The signal is compressed to an appropriate level
B. The extra bits go into a buffer for later use
C. "Clipping" of the signal occurs, introducing distortion

- D. The audio clip is extended to accommodate the extra data
- E. The entire clip's volume is reduced correspondingly
17. Sequencing software:
- A. Places audio clips in order in a sound track
 - B. Records and edits MIDI data
 - C. Applies filters to digital audio clips in a predetermined order
 - D. Manages a project by creating a timeline of events
 - E. Helps synchronize images with a sound track
18. The slower a user's connection, the longer he or she must wait for enough of the sound to download so that the entire file will have downloaded by the time the sound reaches the end. This effect is called:
- A. Streaming latency
 - B. Compression
 - C. Post-processing
 - D. Digital signal processing
 - E. Multitap delay
19. Which of the following sound file characteristics does not directly affect the size of a digital audio file?
- A. Sample size
 - B. Sample rate
 - C. Volume
 - D. Tracks (stereo vs. mono)
 - E. Compression
20. A project that is shipped or sold to consumers or end users, typically in a box or sleeve or on the Internet, with or without instructions, is a(n):
- A. Web Site
 - B. Authoring tool
 - C. Multimedia title
 - D. Multimedia project
 - E. CD-ROM

Question Three (4 Marks)

List four basic sound editing operations that most multimedia producers need:

- 1-
- 2-
- 3-
- 4-



Question Four (4.5 Marks)

What are the main differences between MIDI and digital audio?

	Digital Audio	MIDI
1		
2		
3		

Question Five(4.5 Marks)

What are the differences between bitmap fonts and outline fonts.

	Bitmap fonts	Outline fonts
1		
2		
3		